Homework Assignment No. 3

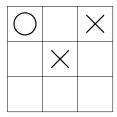
Due 09:00 pm, Wednesday October 8, 2014

Late submission within 24 hours: score*0.9;

Late submission before post of solution: score*0.8 (the solution will usually be posted within a week); no late submission after the post of solution)

(Total 50%)

1. (50%) A sample game of tic-tac-toe is shown in following figure. Write an interactive program that allows two people to play tic-tac-toe on the computer. Your program should include functions to: (1) Display the board. (2) Request next move from appropriate player and check whether it is a legal move. You can assume that X always goes first. (3) Determine whether the game is over and why (誰贏誰輸或和局).



HW Submission Procedure (請仔細閱讀):

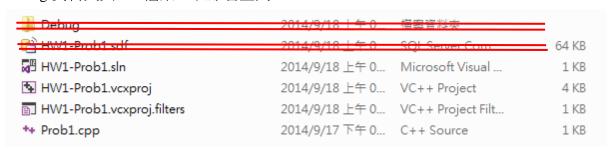
1. You should create an independent Visual Studio 2013 project for each problem. You should submit your project folder, which includes your source codes (header and cpp files), input/output data and Visual Studio 2013 project files. To save space, please delete

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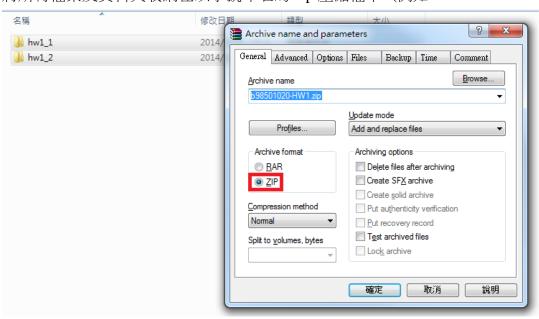
Debug folder and sdf before submitting your files.

繳交時請以專案資料夾區分每一道題目,資料夾中應包含該題中的每個標頭檔、cpp檔、所讀取的資料與輸出的結果與 Visual Studio 2013 相關專案檔。繳交前請刪除 Debug 資料夾與 sdf 檔案,以節省空間。



2. You should zip all the files and use your student id to name the zip file (e.g., b98501020-HW1.zip).

將所有檔案及資料夾收納在以學號命名的 zip 壓縮檔中。(例如: b98501020-HW1.zip)



3. Submit your HW directly through the course website.

請直接透過課程網站繳交作業。



HW Grading Policy:

- 1. You should consider about exception handling, e.g. error input, file opening fail, etc. 請注意所有例外狀況的處理,例如:錯誤的符號字串輸入、檔案開啟失敗等。
- 2. The coding style includes your output format. 輸出資料的格式將納入格式評分。
- 3. If your code is not compilable, your score in this problem is zero (including coding style). 若程式無法編譯,則該題以零分計算。(包含格式分數)

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- 4. Your program will be tested with other data which is not the same as provided samples. 除了題目所提供的範例測試資料以外,作業程式碼將以額外的測試資料進行測試。
- 5. If tricky situations occur, the grade depends on Prof. Chen or TA's judgment. 假如有特殊情況發生,則依據陳俊杉教授以及助教們的判斷給分。
- Coding Style (20%): 編碼格式分數
 - 1. format 整體形式與輸出資料的格式
 - 2. readability 可讀性
 - 3. variables naming 變數命名方式
 - 4. typesetting 型別設定
- Functionality (80%): 功能性分數
 - 1. run-time performance:

執行時的表現

- 1) samples not passed -> x 範例測資錯誤 => 此部分零分
- 2) samples passed but some tests failed -> partial 範例測資通過但是部分測資失敗 => 部份給分
- 3) samples and tests all passed 範例測資與所有測資通過 => 此部分滿分